

### CE - Declaration of conformity

We herewith declare, that the TEAC MEDIA SYSTEMS HP-7D complies with the following norms or normative documents:

EMC Directive 89/336 / EEC;

EN 55022 : 1998 + A1 : 2000 + A2 : 2003

EN 55024 : 1998 + A1 : 2001 + A2 : 2003 (EN 61000-4-2 / -3)

This statement is based on the test reports of an EMV - laboratory.

All texts and illustrations were produced with utmost care. TEAC MEDIA SYSTEMS cannot however accept any legal or other responsibility for any remaining incorrect information and its consequences.

Subject to change without further notice.

**In case there is audible noise,  
possibly caused by strong radio waves (e.g. by mobile phones)  
we recommend to turn down the volume control of the unit.**

If you have special questions to the product and cannot find a solution in this introduction, you can look for more informations at our homepage

[www.teac.de](http://www.teac.de)

## HP-7D

# USER MANUAL



## 5.1 Surround Sound Headphone System

### Features

The HP-7D USB 5.1 surround sound headphone system incorporates a USB sound decoder with a home theatre 5.1 channel amplifier integrated in a small, handy in-line control box, and a special headphone with 6 independent sound channels, with a total of 8 speaker drivers. The independence of channels enables performing different sounds that together achieve perfect home theater leisure enjoyment by full 360 degree soundscape which comes impressively close to real theater feeling. Therefore it presents real 5.1 channel surround sound effects for DVD movies, action games or music. That offers you a perfect home theater enjoyment!

### Instructions

1. Before operation, please make sure the driver software is correctly installed in your computer system.
2. Before switching on the power, please make sure the USB cable is correctly connected
3. Before switching on the power of 5.1 headphone control box, please turn the master volume of your computer down. Adjust to desired volume after the product is working properly. Doing so, will prevent damage to 5.1 speaker units and also prevent of shock by unexpected signal volumes.
4. Please keep the product in a ventilated area and away from high temperature place, no direct sunlight, damply or dusty environment. Also avoid placing on top of heat radiating objects.

### System Requirements:

1. USB 2.0 device: This 5.1 USB headphone can only be used with products that supports USB function. It is designated for the PC USB bus to provide 500mA power, according to USB 2.0 version full speed mode, compatible with mainstream operation systems.  
Users should first confirm, the PC operating system and hardware can support USB 2.0 specification.
2. Operation systems supported by driver: Windows 2000, Windows XP.
3. CPU: INTEL PENTIUM III or AMD K6 500 and compatible, or higher system.
4. Recommended RAM: At least 64MB memory.
5. At least 50MB hard disk space.
6. Please adjust hardware system to maximum speed and highest sampling frequency to achieve the best sound quality.

### Notes on USB interface:

1. Some USB master controllers may impact the audio output and send out some discontinuous signals as the data bunch was lost during transmitting. But this rarely happens.
2. Before installing driver program, please first connect USB plug of this headphone to USB jack of the computer.
3. If your computer has many USB jacks, please remember to connect the headphone USB plug to the same jack you have installed the driver program, each time using the headphone.
4. If you forgot the jack that you have installed the program, the system will not recognize function until the correct USB jack is connected. There will be a symbol icon displayed at the lower right corner on the screen to indicate when the connection is correct.

## Setup and Driver Installation:

1. Turn on your computer and connect the USB plug of 5.1 headphone to the PC USB jack, then turn on the power switch on the in-line controller.
2. Insert the installation CD in your CD-ROM and open the CD installation application program. The system will guide the program installation automatically; otherwise, double-click the "Setup.exe" to start the installation.
3. Follow system guide, click "Next" button to start installation.
5. You can choose to install "driver only" or "install driver and demonstration program at the same time". Then click "Next" to continue installation.
6. System will automatically set driver program under default path.
7. Please wait while system may take some time to install the program.
8. System will restart after finishing the program installation.
9. There will be a small icon at the lower right corner on the monitor screen after restart. Please click on the icon to start operation.

## Headphone Direct Operation

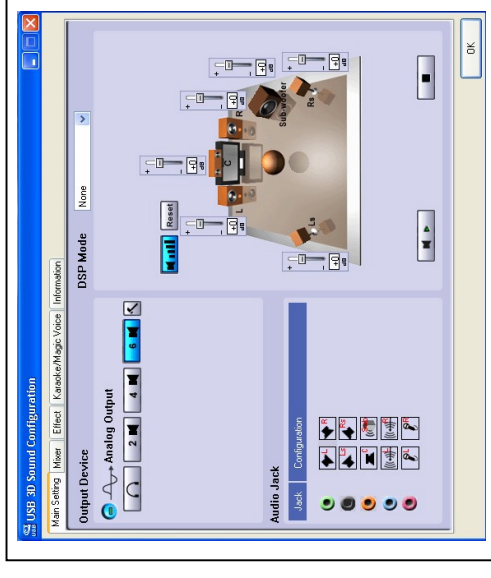
The USB control box at the headphone cable offers the following direct control functions without a need of software control:

- **Power switch:** Select on/off for the USB 5.1 headphone system by the slide switch. Power "On" indication by LED light.
- **Volume control:** step master volume up and down by pressing the **Volume +** or **Volume -** buttons.
- **Microphone switch:** Select on/off for the built-in microphone. "On" indication by LED light.

Ahead of the above mentioned basic control functions, there are various settings to adjust the sound quality and to have additional functions of the USB headphone, controlled by the driver/software supplied with the product.

## Software Interface

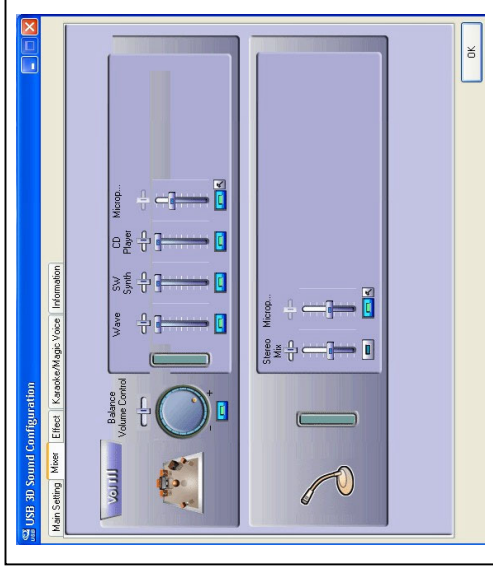
### 1. Main settings



- **Output Device:** Select 6 channel output.
- **Actual Speaker :** Click speaker switch window for selections.
- **Digital Level Control:** Allows adjustment of each individual channel separately. Suggested settings for 6 channels:
  - L/R=+10db
  - C=+13db
  - Ls/Lr=+18db
  - Subwoofer=+21db
- Please set the volume of all channels according to the configuration graph to perform 6 channel output to enjoy 5.1 surround sound.

## 2. Mixer settings

- Master Balance Control
- Master Volume Control
- Master Volume Switch
- Wave Volume Balance
- Wave Volume Control
- Wave Volume Switch
- Midi Volume Balance
- Midi Volume Control
- Midi Volume Switch
- Microphone Control
- Microphone Balance
- Microphone Switch
- Microphone Advance Settings



## 3. Record Volume Balance

- Stereo Mix Balance
- Stereo Mix Volume
- Stereo Mix Switch
- Microphone Recording Volume Control
- Microphone Recording Volume Switch
- Microphone Recording Advance Setting

## 4. Sound Effects

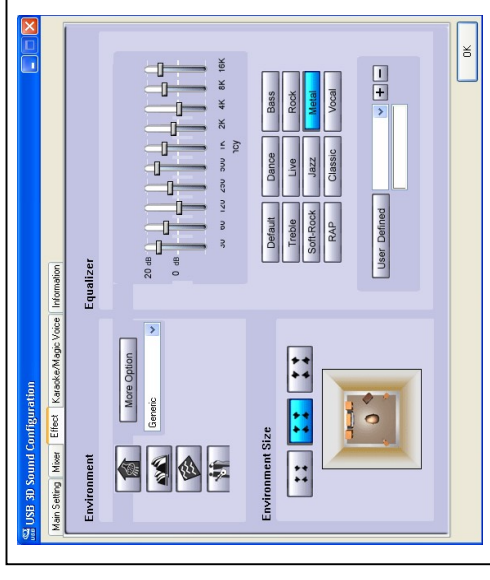
- Environment  
Bathroom/Opera/Under Water/ Music Pub

More Options: Total of 27 modes

- Environment Size  
Large/Medium/Small

## 5. Frequency Equalizer

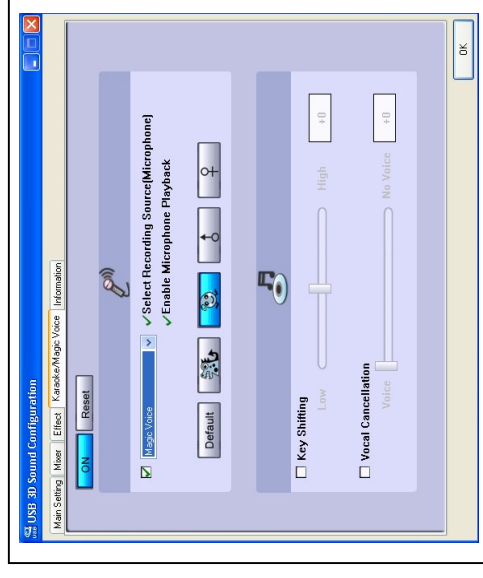
- 10 Equalizer Segments
- 12 Equalizer Presets  
Default, Dance, Live, Rock, Soft-Rock, Jazz, Metal, RAP, Classic, Vocal
- User-Defined Mode Switch



User-Definition Name Input field  
Add New User-Defined Item  
Delete Old User-Defined Item

## 6. Magic Voice

- Magic Voice Power Switch
- Magic Voice functions Reset switch.
- Microphone Echo/Magic Voice function
- Microphone Echo Volume Control.
- You can change your voice to Monster, Cartoon, Male, Female by pressing the Magic Voice function buttons.



7. Important Notes

- 1. When USB audio device has been wearing out caused by plugging and unplugging too often or disconnecting device too fast from the computer, the system may not be able to detect the change in time. In this case, switch the USB audio device manually.
- 2. **Please pay attention: Do not unplug the device while player software or Microphone is operating.** Do not unplug the device while the red light of controller box is flashing. This indicates operation of any player software or Microphone is on; Doing so could damage the normal operation of the system. The correct way is to close all player programs and microphone functions. Wait until red light of controller box stops flashing and stays led before unplugging the USB device.
- 3. All appliances including DVD player software, DVD ROM, DVD movies, etc. are required to provide Dolby Digital AC-3 and DTS 5.1 channel decoding function to achieve the best 5.1 channel digital surround sound. Also you have to set the DVD appliance to six speaker units sound output.
- 4. In the case of more than one USB device is used with 5.1 channel USB headphone at the same time, please start 5.1 channel USB headphone first, then the other USB equipments later. Otherwise, it will cause malfunction to the 5.1 channel USB headphone.
- 5. Please adjust a USB webcam to minimum bandwidth while using 5.1 USB headphone at the same time. To proceed, please follow these steps:  
Open the webcam window; click OPTIONS and select VIDEO CAPTURE FILTER; un-select USB auto bandwidth on control mode; adjust the USB to minimum bandwidth; Select APPLY, and CONFIRM, then EXIT; Restart to resume work normally. There is no need to reset next time!

Specifications 5.1-Channels USB Amplifier:

|                         |                      |
|-------------------------|----------------------|
| Compatible with         | USB 2.0              |
| Front, Rear, Center.    | 20-20 kHz            |
| Subwoofer               | 20-120 Hz            |
| Signal/Noise ratio      | >=80 dB              |
| Selection               | > -60 dB             |
| Distortion              | < 0.5 %              |
| Power supply USB power  | 5.0 V, 500 mA, 2.5 W |
| Dimensions (W x D x H): | 25 x 76 x 18 mm      |
| Weight                  | apprx. 24 g          |
| Operation Temperature   | 0-40 °C              |
| Operation Humidity      | rel. < 90%           |

Specifications 5.1-Channels Headphone:

|                          |             |
|--------------------------|-------------|
| Power capacity           | 500 mW x 6  |
| Speaker Driver Front     |             |
| Diameter                 | 40 mm (x 2) |
| Impedance                | 64 Ohms     |
| Frequency Range          | 20-20 kHz   |
| Speaker Driver Rear      |             |
| Diameter                 | 30 mm (x 2) |
| Impedance                | 32 Ohms     |
| Frequency Range          | 20-20 kHz   |
| Speaker Driver Center    |             |
| Diameter                 | 30 mm (x 2) |
| Impedance                | 32 Ohms     |
| Frequency Range          | 20-20 kHz   |
| Speaker Driver Vibration |             |
| Diameter                 | 30 mm (x 2) |
| Impedance                | 8 Ohms      |
| Frequency Range          | 20-120 Hz   |

Specifications Mikrophone

|                   |                          |
|-------------------|--------------------------|
| Type              | Electret-Capsule. 9.7 mm |
| Directivity       | omnidirektional          |
| Impedance         | 2200 Ohms +/- 15%        |
| Sensitivity       | 60dB +/- 2 dB            |
| Frequency Range   | 30- 16,000 Hz            |
| Operation Voltage | nominal 4.5V             |